

de

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/720,921	11/24/2003	Jan Karel Frederik Buijink	TS-1309 (US) JDA:KNL	5234
23632 7590 01/23/2007 SHELL OIL COMPANY P O BOX 2463			EXAMINER	
			DENTZ, BERNARD I	
HOUSTON, TX 772522463			ART UNIT	PAPER NUMBER
			1625	
			•	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		01/23/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)	
•		10/720,921	BUIJINK ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Bernard Dentz	. 1625	
Period f	The MAILING DATE of this communication or Reply	appears on the cover sheet with	h the correspondence address	
WHIO - External after af	HORTENED STATUTORY PERIOD FOR RECHEVER IS LONGER, FROM THE MAILING ensions of time may be available under the provisions of 37 CFI r SIX (6) MONTHS from the mailing date of this communication D period for reply is specified above, the maximum statutory peure to reply within the set or extended period for reply will, by st reply received by the Office later than three months after the med patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNIC R 1.136(a). In no event, however, may a re riod will apply and will expire SIX (6) MON atute, cause the application to become AB.	ATION. ply be timely filed "HS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).	
Status				
1)[Responsive to communication(s) filed on _		·	
2a)□		This action is non-final.		
3)[Since this application is in condition for allo	wance except for formal matte	ers, prosecution as to the merits is	
	closed in accordance with the practice und	er <i>Ex parte Quayle</i> , 1935 C.D.	11, 453 O.G. 213.	
Disposit	ion of Claims		•	
4)⊠	Claim(s) 1-20 is/are pending in the applicat	ion.		
	4a) Of the above claim(s) is/are with	drawn from consideration.		
5)□	Claim(s) is/are allowed.			
6)⊠	Claim(s) <u>1-20</u> is/are rejected.		,	
7)	Claim(s) is/are objected to.			
8)[Claim(s) are subject to restriction an	d/or election requirement.		
Applicat	ion Papers			
9)□	The specification is objected to by the Exam	niner.		
	The drawing(s) filed on is/are: a)		y the Examiner.	
	Applicant may not request that any objection to	the drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).	
	Replacement drawing sheet(s) including the cor	rection is required if the drawing(s) is objected to. See 37 CFR 1.121(d).	
11)	The oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form PTO-152.	
Priority (under 35 U.S.C. § 119			
	Acknowledgment is made of a claim for fore ☐ All b)☐ Some * c)☐ None of:	ign priority under 35 U.S.C. §	119(a)-(d) or (f).	
ŕ	1. Certified copies of the priority docum	ents have been received.		
	2. Certified copies of the priority docum		plication No.	
	3. Copies of the certified copies of the p			
•	application from the International Bur		· ·	
* 5	See the attached detailed Office action for a	list of the certified copies not r	eceived.	
Attachmen	t(s)	•		
,	e of References Cited (PTO-892)	4) Interview Su	immary (PTO-413)	
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)	/Mail Date	
	mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	5) Notice of Int	ormal Patent Application	

Application/Control Number: 10/720,921

Art Unit: 1625

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4, 6-11 and 13-20 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent 6,114,552 cited by applicants. Applicants recite the same process recited in claim 1 for preparing an epoxidation catalyst. The temperature range in the patent for drying the silica gel carrier includes the instant range. Note the calcinations, hydrolysis and silylation steps are taught at col. 4 to col. 6.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Han et al, US Patent 6,114,552 cited by applicants. It discloses the instant process for the production of a Si-Ti containing epoxidation catalyst. At the top of col. 4 it states that "it is highly desirable to dry the inorganic siliceous solid prior to impregnation. Drying may be accomplished, for example by heating the inorganic siliceous solid for several hours at a temperature of 100 to 700 degrees C, preferably at least 200 degrees C. The calcinations and silylation steps of claims 7 and 8 are taught at col. 4 and 5 of the

Application/Control Number: 10/720,921 Page 3

Art Unit: 1625

reference. Thus it would have been obvious to select a part of the compact range of temperatures recited in the reference.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The definition of "weight average particle size" is not clear.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bernard Dentz whose telephone number is 571-272-0683. The examiner can normally be reached on Mon-Fri from 8 to 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas McKenzie, can be reached on 571 272-0670. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dentz 1-16-2007

BERNARD DENTZ PRIMARY EXAMINER